rtment.

but useful information can

does not know the ordinary or more correctly speaking, eetle. It comes thumping ag into the room during the en the lamps are lighted ors or windows are open any who are well acquainted the are not aware that it is me insect as the white grub ore advanced stage. These or "June bugs" have a life h covers a period of about First we have the eggs the eggs and go down into the eggs and go down into



eristic Work of the

they come near the surface many plants, the strawof the favorites. The grub to a pupal or resting stage merges a full-fledged beetle. le or June bug cannot be combatted with poison. vating the land proper) ht time that this pest is

we have the cabbage worm most destructive in it it does its had work all so we can poison it when the heads of cabbase in There will be dozens of and species of insects and a study of them will many of the mysteries of

Grub at Work on ant Roots.

Science vs. Guesswork

How " Hit-or-Miss " Lubrication Gave Way to the Scientific Use of Oils.

Friction in an engine is the worst nemy of economy and full power.

The practical need for something to reduce friction brought about the first use of lubricants. Fish oils and animal fats were first used.

It was later found that petroleum would yield different types of lubricating oils of marked

Development in the manufacture of different grades and classes of lubricating oils came at a fortunate time. For mechanical arts developed rapidly.

in the field of scientific lubrication

and demonstration of power-saving

by the use of proper lubricants.

Unless the lubricating problems were properly met, mechanical development would fail in its aim. Only the properly lubricated engine could yield the efficiency aimed at

MAY, 15, 1919



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Reduced Carbon deposit. Reduced Gasoline consumption.

In taking up automobile lubrication they simply pursued their professional methods which were

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right, represents the professional

advice of a Board of Automotive Engineers, based on technical knowledge of gas engines and actual tests on the road.

In using the oil specified for your car you will use oil whose correct-

ness was determined by very

thorough and care-

ful engineering analysis of your engine. The oil

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displacements and the second	1000	-	Discharte	Panantina	
AUTOMOBILES"	Riving	Glada.	1517 Ulimpeta	Real Str.	1000 Medido
Cause of the Control	ante ante	950		TI	1 5
48	5 3	See See	3 5	S M	3 2
Auburn (a cyl.)	A Arc.	A Ase.	A Am.	A Art	A Are.
Auburn (6-yil)	Arc. Arc.	Are. Are.	Arc. Arc.	Are Are	Are. Are.
Autocar (2 cyl.)	A Arc.	A Arc.	A And	A Are	A Am
Buick (8 cyd.)	A Arc.	A Apc.	A Are.	A Are	A Ase.
Cadillar (8 cyl.)	AA	A A	A A	A A	tre. Are.
Chalmen (form)	ric one	A. A.	A Ared	A Are.	A Are-
Chandler Sig	A A		AA	A AR	restant.
Chevrolet	B. Arc.	Ge Are A	re Are A	re. Are. A	re, Are,
Cole (F.A.)	A Arc.	A Are	11		er gives
Cunningham.	AA	AA	AA	AA	AAA
Dart (BeyL)	A A	A Are.	A An	4	
(5 and 536 ton)	ATAT	AA	A Atro.	A fac.	A PLUE
Durt	A Are.	A Arc.	A Apr. A	lare.	An
Federal (special)	re pare	4 4 4	Are Ar	e Asc. As	c. Are.
Ford.		S AT	ITATI	itati	124
Franklin			AAA	A	H A
Com'l	Are.		PATE A	Are. An	Aue,
(13 cyl.)	1	Arc. A	Arc. A	Ane A	Are.
Super Sia	Are.	Are A	Am Am	Art Are	AND
Kolly Springfield	Are.	Are A	Are A	Are A	Aze.
(o4)	TATA	TATA	TATA	1212	Are.
Elevel Ket	Are A	Are. A	Are. A	Art A	Age.
Lettinition (Its cyl.)	TUTA	TALA	A A	AA	A
Lippord Stewart.	An	Are Are	Are Are	Are. Are.	Are.
Loevenshile (Mod MW)	14.	1412	概念	Ant	
McFyrlan Are	Are ha	Are. A	APL A	3 8	Are.
BicLoughlin (Med. Elg.) A.	AA	A -	燈瓷	鹽鹽	Age.
Margios	AA	A A	AA	A A	Aire.
Mercuri	Arc Are	Are Are.	Are Are.	Age. Are.	Arc.
Mischell	Ares A	Are. A	Are. A	Sec.	Apr.
Moline Reight Carrage B	省量	ATA	A	A	1524
(Mod. Mt)	A	A A	Arc. E	EA	Are.
Moon	Are.	Are Are	Are Are	loc Are	
(Diad, firs)	V. A	A		*******	***
Mational Are	Are. Are.	Arc. Are.	ue A	in A A	int.
Nelson.	AAA	AAA	812		724
Oldsmobile (4 cyl.) A.	Lee .		A	A	
Durdanid (B'cyl.) A	AA	A ATE	A A	APE A	R.
Packard (13 cyl.)	ue Are.	ire Are A	rc. Are. A	Asc. A	PR.
Paigo (4 cyt)	AA	A A .	AAA	HAT?	
" (6 cyl.)	re Are A	re Are A	re Are Ar	Atc. At	16. 16.
(6-y8-y9)	A A	AA	2	A A	
Paterson Arc. A	re. Are. A	re. Are A			
Pierge Arrow A	A. A. A	re Are As	Arc. An	C. Arc. An	4819
	A Arc. A	A A A	A A	Arc. An	6
Pression A. Regul Arc. As (S cyl.) Arc. As Renault (Feutch) Arc. As As a As	c. Are. A	A Are. An	A An	Arc Arc	
Renault (French),	121	1	A Are	Are Are	
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Selden Arc An	e. Arc. Ar	Arc An	Acc. Arc	Arc. Are	1
Simples Crane B A	A A	A Arc Ass A Arc A A	A A Ase	Are Are	19/00
Steamas-Knight B A Studabakar A Aa Stutsi A	AA	A Arc	A Are	Arc. Arc.	
Valle (4 cyl.)	Are An	Am Am	Are lane	A Acc.	
(6 cyt.) Are Are (2 dr 3 % tom) Are Are (2 fr tom) Are Are	Arc Arc	4			
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a de ploy dons) — Ance Ance Ance Ance Ance Ance Ance Ance	Are Are	Are Are Are Are A A	13		
Blys Sin Art. Art.	Are Are	Arc. Are.	B A	BA	18 19
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